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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,570	02/09/2004	Sudhir Govind Deshmukh	IJ0077USNA	1447
23906	7590 12/29/2005		EXAM	INER
E I DU POI	NT DE NEMOURS AN	FIDLER, SHELBY LEE		
LEGAL PAT	TENT RECORDS CENTE	R	L DELLEUM T	DARES MANAGES
BARLEY MILL PLAZA 25/1128			ART UNIT	PAPER NUMBER
4417 LANCASTER PIKE			2861	
WII MINGT	ON DE 10905			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/775,570	DESHMUKH ET AL.
Office Action Summary	Examiner	Art Unit
	Shelby Fidler	2861
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re on. period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 2a) This action is FINAL. 2b) Since this application is in condition for all closed in accordance with the practice un 	This action is non-final. lowance except for formal matte	-
Disposition of Claims		
4) Claim(s) <u>1-15</u> is/are pending in the application Papers	hdrawn from consideration. and/or election requirement.	
 9) ☐ The specification is objected to by the Exa 10) ☐ The drawing(s) filed on 2/9/2004 is/are: a Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the control	D⊠ accepted or b) objected to the drawing(s) be held in abeyand correction is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docured. 2. Certified copies of the priority docured. 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a second content. 	ments have been received. ments have been received in Ap priority documents have been rureau (PCT Rule 17.2(a)).	pplication No seceived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)		immary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>2/9/2004</u>. 		/Mail Date formal Patent Application (PTO-152) -

Specification

The abstract of the disclosure is objected to because it is replete with errors. Line 5-7 of the abstract recites an incomplete sentence. Lines 11-12 recite "The device does not dispense the composition *is* the current information does not match . . . " Correction is required. See MPEP § 608.01(b).

Claim Objections

Claim 9 is objected to because of the following informalities: There is no antecedent basis for "said step (C1)," recited in line 1. Appropriate correction is required.

Claim 14 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 14 is claiming a storage medium rather than the dispensing device of claim 1, on which it claims dependence.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/775,570

Art Unit: 2861

Page 3

Claims 1-2, 4-6, and 8-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Owen et al. (US 2004/0085565 A1) in view of Hirst (US 5930553), and further in view of Cook (US 6155664).

With regards to claim 1, Owen teaches a dispensing device comprising:

- (A) a client computer usable storage medium located in a client computer of the dispensing device (element 54, Figure 4), and a host computer usable storage medium located in a host computer (element 74, Figure 4) in communication with the client computer (element 78, Figure 4);
- (B) one or more reservoirs (element 32B, Figure 4) containing dispensable compositions (elements 64, Figure 4), the reservoirs being positioned in the dispensing device (paragraph 29, lines 4-5), and having identification tags affixed thereto (paragraph 29, lines 6-7);
- (C) means for dispensing one or more dispensable compositions through one or more dispensing heads (dispensing head is inherent to inkjet printing device 104B, paragraph 26, lines 1-2), the means for dispensing being in communication with the client (via unreferenced arrows through interrogator 52, Figure 4) and the host computers (via network 76, Figure 4).
- (D) means for reading (paragraph 30, lines 17-19) current dispensable composition information of the dispensable compositions disposed on the identification tags (paragraph 30, lines 3-5).
- (E) means for writing (paragraph 30, lines 17-19) updated dispensable composition information of the dispensable compositions to the identification tags (paragraph 17, lines 1-7); and

Art Unit: 2861

(F1) means for configuring computer readable program code devices to cause the means for reading to read the current dispensable composition information (*paragraph* 39, *lines* 14-18) and to store the current information on the client computer and the host computer (*paragraph* 21, *lines* 1-5);

(F2) storing dispensable composition information of the dispensable compositions on the host computer and the client computer (*paragraph 21*, *lines 1-5*).

(F4) means for configuring computer readable program code devices to cause the host computer to generates the updated dispensable composition information of the dispensable compositions (paragraph 21, lines 1-9 in combination with paragraph 39, lines 14-17 show that the host processor 202 executes updatable composition information); and

(F5) means for configuring computer readable program code devices to cause the means for writing to write the updated dispensable composition information to the identification tags and to store the updated information on the host computer, or on the client computer and the host computer (paragraph 21, lines 1-9).

Owen does not expressly teach the computer readable program code resides in both the client and host computers. Hirst teaches

(F) that the computer readable program code resides in the client computer usable storage and the host computer usable storage media (col. 2, lines 33-37);

Owen does not expressly teach terminating dispensing of dispensable composition if the current composition information does not match with stored composition information. Cook teaches

(F2) means for configuring computer readable program code devices (controller 31, col. 10, line 36) to cause the means for dispensing to terminate dispensing the dispensable compositions if the current information does not match (col. 10, lines 46-49) with stored dispensable composition information of the dispensable compositions (col. 10, lines 36-41).

(F3) means for configuring computer readable program code devices (controller 31, col. 10, line 36) to cause the means for dispensing to dispense the dispensable compositions in accordance with a dispensing program if the current information matches (col. 10, lines 41-46) with the stored dispensable composition information (col. 10, lines 36-41).

With regards to claim 2, Cook teaches that the reservoirs are positioned in one or more racks of the dispensing device ("carriage" is read as rack, col. 5, lines 39-40).

With regards to claim 4, Owen teaches that the identification tag is a RFID tag (*paragraph* 29, *lines 8-9*).

With regards to claim 5, Owen teaches that one or more identification tag interrogators comprise the means for reading and writing (*paragraph 30*, *lines 17-19*).

With regards to claim 6, Owen teaches that the identification tag is a passive or an active RFID tag (paragraph 31, lines 1-7).

With regards to claim 8, Owen teaches that the dispensable composition is an electrically conductive ink (*paragraph 18*, *line 7*).

With regards to claim 9, Owen teaches that the dispensing composition is dispensed on a target substrate (paragraph 34, lines 6-8).

With regards to claim 10, Owen teaches that the target substrate is a cellulose paper (paragraph 34, line 8).

With regards to claim 11, Owen teaches that the means (F2) comprise means for configuring computer readable program code devices to cause the host computer to determine the amount of the dispensable compositions remaining in one or more of the reservoirs (paragraph 43, lines 13-17).

With regards to claim 12, Owen teaches that the means (F4) comprise means for configuring computer readable program code devices to cause the host computer to deduct dispensed quantities of one or more of the dispensable compositions (paragraph 36, lines 7-10) from current quantities registered in the current dispensable composition information (paragraph 39, lines 22-25) to arrive at updated quantities of one or more dispensable compositions (paragraph 39, lines 16-17) registered in the updated dispensable composition information (paragraph 17, lines 1-7).

With regards to claim 13, Cook teaches that the dispensing head is a printhead (*col. 5, line 29*).

With regards to claim 14, Owen teaches that the computer readable program code means is stored on a portable computer usable storage medium (paragraph 39, lines 1-12 in combination with paragraph 38, lines 11-14).

With regards to claim 15, Owen teaches that the portable computer usable storage medium is a CD-ROM (paragraph 38, line 14).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to combine Owen's invention with the locality of Hirst's computer readable program code, and the printing controls of Cook. The motivation for combining with Hirst, as taught by Hirst, is that the software in the client and host computers can generate requests and recognize

requests for information about various consumables (*col. 3, lines 3-9*). The motivation for combining with Cook, as taught by Cook, is so that the printer may be controlled properly based on the compatibility of the ink and the printhead (*col. 1, lines 53-58 in combination with col. 2, lines 25-28*).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Owen et al. in view of Hirst, and further in view of Cook, as applied to claim 1 above, and further in view of Allen (US 4973993).

With regards to claim 3, Owen does not expressly teach that the reservoir is a bag nested in a receptacle. Allen teaches that the reservoir is a disposable bag (col. 4, lines 27-28) nested in a receptacle (element 14 nested in element 142, Figure 3) located in the dispensing device (col. 1, lines 7-8).

At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify Owen's reservoir with Allen's reservoir bag. The motivation for doing so, as taught by Allen, is that the bag can be replaced when empty (col. 4, lines 27-28).

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Owen et al. in view of Hirst, and further in view of Cook, as applied to claim 1 above, and further in view of Lawler, Jr. et al. (US 5964656).

With regards to claim 7, Owen does not expressly teach that the RFID tag is disposed on an insulated substrate. Lawler, Jr. teaches that the RFID tag is disposed on an insulated substrate (col. 9, lines 27-29).

Application/Control Number: 10/775,570

Art Unit: 2861

At the time of invention, it would have been obvious to a person of ordinary skill in the

art to modify Owen's RFID tag with Lawler, Jr.'s insulated substrate. The motivation for doing

so, as taught by Lawler, Jr., is that the insulated material ensures that the tag is kept insulated

from ferrous materials, which are known to interfere with the operation of the tag (col. 9, lines

11-15).

Conclusion

Information regarding the status of an application may be obtained from the Patent

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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Page 8